

## Product Information

### **MemDX™ Membrane Protein Human MC3R (Melanocortin 3 receptor) Expressed *in vitro* *E.coli* expression system, Full Length**

Cat. No.: **MPX3454K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human MC3R membrane protein expressed *in vitro* *E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### **Host Species**

Human

##### **Target Protein**

MC3R

##### **Protein Length**

Full Length

##### **Protein Class**

GPCR

##### **TMD**

7

##### **Sequence**

MSIQKTYLEGDFVFPVSSSSFLRTLLEPQLGSALLTAMNASCCLPSVQPTLPNGSEHLQAPFFSNQSSSAFCEQVFIKPEVFLSLGIV

#### Product Description

##### **Expression Systems**

*in vitro* *E.coli* expression system

##### **Tag**

10xHis tag at the N-terminus

##### **Protein Format**

Soluble

##### **Form**

Liquid or Lyophilized powder

##### **Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### **Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

### **Target**

#### **Target Protein**

MC3R

#### **Full Name**

Melanocortin 3 receptor

#### **Introduction**

This gene encodes a G-protein-coupled receptor for melanocyte-stimulating hormone and adrenocorticotrophic hormone that is expressed in tissues other than the adrenal cortex and melanocytes. This gene maps to the same region as the locus for benign neonatal epilepsy. Mice deficient for this gene have increased fat mass despite decreased food intake, suggesting a role for this gene product in the regulation of energy homeostasis. Mutations in this gene are associated with a susceptibility to obesity in humans.

#### **Alternative Names**

MC3R; MC3; OB20; OQTL; BMIQ9; MC3-R; obesity quantitative trait locus; Melanocortin 3 receptor

#### **Gene ID**

[4159](#)

#### **UniProt ID**

[P41968](#)